



SPEC® CINT2006 Result

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Intel Corporation Flextronics W840DI

SPECint®_rate2006 = 39.1
SPECint_rate_base2006 = 36.3

CPU2006 license: 13

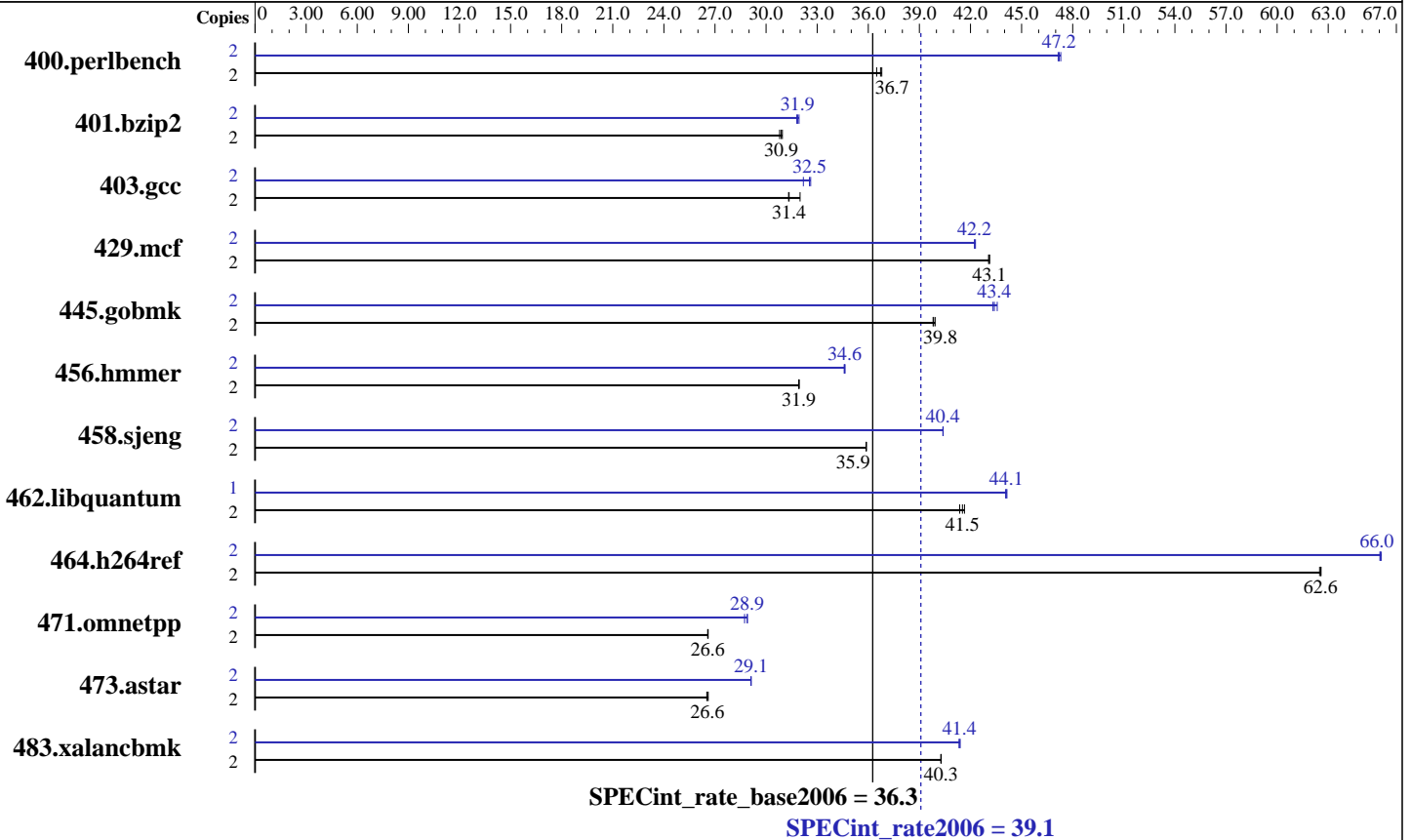
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Aug-2008

Hardware Availability: Sep-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Extreme Mobile X9100
 CPU Characteristics:
 CPU MHz: 3067
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 6 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (2x4GB Micron PC3-8500 DDR3-1066 CL7)
 Disk Subsystem: Seagate ST9120823AS SATA 160GB 7200RPM
 Other Hardware: None

Software

Operating System: Windows Vista Ultimate SP1 (64-bit)
 Compiler: Intel C++ Compiler for IA32 version 10.1
 Build 20070913 Package ID: w_cc_p_10.1.011
 Microsoft Visual Studio 2005 SP1 (for libraries)
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None
 SmartHeap Library Version 8.1 from
<http://www.microquill.com/>



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	531	36.8	<u>532</u>	<u>36.7</u>	535	36.5	2	413	47.3	<u>414</u>	<u>47.2</u>	414	47.1
401.bzip2	2	623	31.0	627	30.8	<u>625</u>	<u>30.9</u>	2	<u>606</u>	<u>31.9</u>	607	31.8	604	31.9
403.gcc	2	<u>514</u>	<u>31.4</u>	503	32.0	514	31.3	2	494	32.6	500	32.2	<u>495</u>	<u>32.5</u>
429.mcf	2	423	43.1	<u>423</u>	<u>43.1</u>	424	43.1	2	432	42.2	<u>432</u>	<u>42.2</u>	431	42.3
445.gobmk	2	527	39.8	526	39.9	<u>527</u>	<u>39.8</u>	2	<u>483</u>	<u>43.4</u>	482	43.6	484	43.3
456.hammer	2	584	31.9	<u>584</u>	<u>31.9</u>	585	31.9	2	539	34.6	<u>539</u>	<u>34.6</u>	540	34.6
458.sjeng	2	675	35.9	<u>675</u>	<u>35.9</u>	674	35.9	2	<u>599</u>	<u>40.4</u>	599	40.4	599	40.4
462.libquantum	2	995	41.6	<u>998</u>	<u>41.5</u>	1002	41.4	1	470	44.1	<u>470</u>	<u>44.1</u>	469	44.1
464.h264ref	2	708	62.5	707	62.6	<u>707</u>	<u>62.6</u>	2	669	66.1	<u>670</u>	<u>66.0</u>	670	66.0
471.omnetpp	2	<u>470</u>	<u>26.6</u>	470	26.6	470	26.6	2	433	28.9	<u>433</u>	<u>28.9</u>	435	28.7
473.astar	2	529	26.5	528	26.6	<u>529</u>	<u>26.6</u>	2	<u>482</u>	<u>29.1</u>	482	29.1	482	29.1
483.xalanbmk	2	<u>343</u>	<u>40.3</u>	343	40.3	343	40.3	2	334	41.3	333	41.4	<u>334</u>	<u>41.4</u>

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Binaries were built on Windows Vista32
The following VS 2005 SP1 updates were applied: KB926601 and KB932232

Base Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99
C++ benchmarks:
icl -Qvc8

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalanbmk: -Qoption,cpp,--no_wchar_t_keyword

Base Optimization Flags

C benchmarks:
-fast -Qvec-guard-write /F512000000

Continued on next page



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Base Optimization Flags (Continued)

C++ benchmarks:

```
-fast -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks:

```
icl -Qvc8 -Qc99
```

C++ benchmarks:

```
icl -Qvc8
```

Peak Portability Flags

```
403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword
```

Peak Optimization Flags

C benchmarks:

```
400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE
```

```
401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000
```

```
403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
```

```
429.mcf: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE
```

```
445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec-div- -Qansi-alias /F512000000
```

Continued on next page



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Peak Optimization Flags (Continued)

456.hmmcr: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12
-Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll14
/F512000000

462.libquantum: -fast -Qunroll14 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12
-Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=block -Qcxx_features /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=routine -Qcxx_features /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-revC.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-revC.xml>



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